



FAVERO GEOSCIENCES

October 1, 2009

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Mr. Don Heller
U.S. Environmental Protection Agency, Region 5
Waste Management Division
77 West Jackson Blvd., HRP-8J
Chicago, IL 60604-3590

RE: Special Report on the Evaluation of Potential Off-Site Migration of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12
RCRA Corrective Action
Allison Transmission, Speedway, IN
USEPA ID Nos. IND006413348 and IND000806828

Dear Mr. Heller:

The above referenced report is enclosed for USEPA's review. The evaluation was completed and the report was prepared in response to the detection of vinyl chloride in samples collected by the Marion County Health Department in two private water supply wells located southeast of Allison Transmission Plant 12.

Based on review of available concentration contour drawings, available groundwater analytical results, and available groundwater potentiometric surface maps, chlorinated VOCs, including vinyl chloride have not migrated off-site to the south of Allison Transmission Plant 12.

Please contact me if you have any questions.

Sincerely,

David M. Favero, P.G.
Project Manager

Enclosure

Special Report on the Evaluation of Potential Off-Site Migration of Chlorinated Volatile Organic Compounds South of Allison Transmission Plant 12, General Motors Company RCRA Corrective Action at Allison Transmission, Inc., Speedway, Indiana, October 1, 2009.

Distribution List

Marilyn Dedyne, GM (via e-mail)
Sue Barto, Allison Transmission, Inc. (via e-mail)

**Special Report on the
Evaluation of Potential Off-Site Migration of
Chlorinated Volatile Organic Compounds
South of Allison Transmission Plant 12**

General Motors Company RCRA Corrective Action

at Allison Transmission Inc., Speedway, Indiana

October 1, 2009

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Table 2 Summary of Analytical Results

Drawings

- Drawing 1 Facility Vicinity
Drawing 2 No-Well Zone Area 2
Drawing 3 Summary of Analytical Results

Attachment

- A Indiana Department of Natural Resources Water Well Records
B Laboratory Analytical Report
C Potentiometric Surface Maps
D Concentration Contour Drawings

1. Background

ARCADIS U.S., Inc. (ARCADIS) has prepared this evaluation on behalf of General Motors Company (GM) for the Allison Transmission, Inc. facility located at 4700 West 10th Street, 4500 West Gilman Street and 901 Grande Avenue (Facility), in Speedway and Indianapolis, Indiana (Drawing 1).

The United States Environmental Protection Agency (USEPA) and GM have entered into a performance-based RCRA Corrective Action Agreement (Agreement) with the effective date of April 27, 2005. Pursuant to the Agreement, GM has worked in cooperation with USEPA to investigate, and as necessary, stabilize and remediate releases of hazardous wastes or hazardous constituents at or from the Facility.

In August 2007, GM sold Allison Transmission, which included the Facility, to Clutch Operating Company, Inc. (who now operates the Facility as Allison Transmission, Inc. (Allison)). However, as part of the sale, GM retained responsibility for certain environmental obligations, including RCRA Corrective Action.

As part of the Corrective Action process, GM completed a Corrective Measures Proposal, identifying measures to address potential significant current or future risk to human health or the environment. A component of the Corrective Measures Proposal includes a "No-Well Zone" that would need to be established by the Marion County Health Department (MCHD).

Installation of a well in Marion County requires a licensed water well driller to obtain a well permit, which is approved by the Marion County Health Officer. The Marion County Health Officer does not approve well permits for potable wells in a "No-Well Zone", since the groundwater in these areas is not considered suitable for use by humans for drinking, food preparation, washing or other direct human contact (Sec. 18-102 of the Marion County Health Code). A portion of the Facility (Plant 12/14) and property to the north, east and south of the Facility is within an existing No-Well Zone 2, which is presented on Drawing 2.

On May 26, 2009, GM, Allison and ARCADIS met with the MCHD to discuss possible expansion of No-Well Zone 2 as a measure to be incorporated into the Corrective Measures Proposal. During the meeting, it was noted that there are several residences in the area south of Allison Transmission Plant 12 and within the current No-Well Zone 2 that obtain potable water from water wells on their property. GM has thoroughly investigated the groundwater in the area south of Allison Transmission

Plant 12 to make sure that groundwater in the area was not adversely impacted with contaminants originating from the Facility.

On July 24, 2009, USEPA informed GM that MCHD had collected and analyzed samples from 12 water wells in the residential area south of Allison Transmission Plant 12. The water samples were analyzed for several constituents, including several volatile organic compounds (VOCs). MCHD supplied the USEPA with a table containing a qualitative summary of the results and analytical reports for eight of the samples. Two water samples contained vinyl chloride concentrations exceeding the USEPA Maximum Contaminant Level (MCL) of 2 micrograms per liter (ug/L). The data as provided by the MCHD is presented in Table 1 and a summary of the analytical reports is presented in Table 2. Available water well records for the properties south of Allison Transmission Plant 12 are presented in Attachment A.

2. Evaluation of Potential Off-Site Migration

Because of the detection of vinyl chloride in two water samples collected by MCHD, USEPA requested that GM collect groundwater samples from GM monitoring wells located in the residential area south of Allison Transmission Plant 12 to verify previous findings that no VOCs, including vinyl chloride, had migrated past the Facility boundary. ARCADIS collected groundwater samples on August 5 and 6, 2009 and submitted the samples for analysis of VOCs. VOCs were not detected above the laboratory reporting limits in any of the GM groundwater samples. Analytical results are summarized in Table 2. The laboratory analytical report is presented in Attachment B. A drawing presenting the analytical data collected by MCHD and GM is provided as Drawing 3.

USEPA also requested that available groundwater flow information be reviewed to verify the flow direction between the Facility and the properties where the water samples containing vinyl chloride were collected. ARCADIS reviewed available potentiometric surface maps generated from depth to groundwater measurements collected from monitoring wells at and in the vicinity of the Facility. Groundwater in the vicinity of the residential area south of Alison Transmission Plant 12 appears to generally flow from the north-northeast, from the southern Facility boundary, to the southwest, towards Big Eagle Creek. The available potentiometric surface maps from 2006 to 2009 are presented in Attachment C.

ARCADIS also reviewed available groundwater concentration contour drawings for tetrachloroethene, trichloroethene, cis-1,2-dichloroethene and vinyl chloride from the

uppermost sand and gravel unit (referred to as S2) and a lower sand and gravel unit (referred to as S3) (Attachment D). Concentrations of these compounds have not been detected above MCLs in monitoring wells located at the southern Facility boundary or in monitoring wells located in the area south of Allison Transmission Plant 12.

Based on review of the available concentration contour drawings, the recent groundwater analytical results, and the available groundwater potentiometric surface maps, chlorinated VOCs, including vinyl chloride have not migrated off-site to the south of the Allison Transmission Facility.

Table 1

Address	Well?	Well Depth in Feet	Well Log?	Sample Date	Comments	1st Recheck	Comments	2nd Recheck	Comments
4255 Cossell Rd.									
4251 Cossell Rd.									
4247 Cossell Rd.					Vacant				
4245 Cossell Rd.									
4239 Cossell Rd.	Y	52	Y		Vacant				
4055 Cossell Rd.									
4045 Cossell Rd.	Y			6 23 09	E.coli	7/20/2009			
4036 Cossell Rd.	Y	40	Y	6 17 09	E. coli/coliform	7/20/2009			
4035 Cossell Rd.									
4032 Cossell Rd.	Y			6 23 09	Bact/Chem OK				
4031 Cossell Rd.	Y			6 29 09	coliform	7/20/2009			
4028 Cossell Rd.	Y	40	Y	6 17 09	E. coli/coliform				
4027 Cossell Rd.									
4024 Cossell Rd.	Y	59	Y	6 17 09	coiform				
4020 Cossell Rd.	Y	51	Y	6 17 09	E. coli/coliform	6 29 09	coliform	7/8/2009	coliform + E. coli
4019 Cossell Rd.	Y	41	Y						
4018 Cossell Rd.									
4017 Cossell Rd.	Y	54	Y						
4012 Cossell Rd.	Y	62	Y						
4140 Vermont Ave.	Y	36	Y						
4130 Vermont Ave.	Y	37	Y	6 25 09	Chemical only- OK				
4120 Vermont Ave.	Y	50	Y						
4110 Vermont Ave.	Y	40	Y						
4060 Vermont Ave.	Y	57	Y	6 11 09	coliform	7/6/2009	OK, chem & bact		
4050 Vermont Ave.	Y	70	Y		Vacant				
4046 Vermont Ave.				7/8/2009	Chemical OK				
4044 Vermont Ave.	Y	75	Y						
4042 Vermont Ave.	Y	35	Y	6 11 09	vinyl chl/coliform 2.1 ug/L	6 25 09	vinyl chl 1.5 ug/L	7/20/2009	
4018 Vermont Ave.	Y	75	Y	6/11/2009	vinyl chl 4.5 ug/L				

Geometric Mean 49.82640563
 Average Well Depth 51.41176471

Pink properties are completed.

Table 2. Summary of Analytical Results, Evaluation of Potential Off-site Migration of Chlorinated Volatile Organic Compounds, Allison Transmission, Inc., Speedway, Indiana

	Sample Date	Sample Description	Microbiology		VOCs (ug/L)						Metals (ug/L)						Anions (mg/L)						Wet Chemistry
			Total Coliform	Escherichia coli	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Arsenic	Barium	Cadmium	Chromium	Mercury	Iron	Lead	Fluoride	Chloride	Nitrite	Nitrate	Ortho-Phosphate	Sulfate	
Resident Address - Marion County Health Department																							
4017 Cossell Road	7/27/2009	Outside Spigo	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	<0.47	<0.17	<0.27	<0.13	NP	<0.10	2.5	46.5	<0.017	<0.017	<0.045	4.0	0.56
4018 Cossell Road	8/5/2009	Kitchen Sink	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	68.6	<0.17	<0.27	<0.13	NP	2.0	0.27	143	<0.017	0.70	<0.045	69.1	0.17
4019 Cossell Road	7/27/2009	Kitchen	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	68.9	<0.17	<0.27	<0.13	359	<0.10	<0.012	158	<0.017	<0.017	<0.045	80.7	0.17
4020 Cossell Road	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	6/29/2009	NP	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/8/2009	NP	Present	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4024 Cossell Road	6/17/2009	NP	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4028 Cossell Road	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4031 Cossell Road	6/29/2009	NP	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4032 Cossell Road	6/23/2009	Kitchen Sink	Absent	Absent	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	57.3	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	75.8	<0.017	0.73	<0.045	57.6	0.020
4036 Cossell Road	6/17/2009	NP	Present	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4045 Cossell Road	6/23/2009	NP	NP	Present	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
	7/20/2009	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4018 W. Vermont Street	6/11/2009	Kitchen Sink	Absent	Absent	<0.22	<0.16	<0.29	<0.29	4.5	<0.29	139	<0.17	<0.27	<0.13	363	<0.10	<0.012	203	<0.017	<0.017	<0.045	77.4	0.30
	7/27/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	4.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/5/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	4.6	<0.29	139	<0.17	<0.27	<0.13	N/A	<0.10	0.22	213	<0.017	<0.017	<0.045	69.1	0.21
	8/12/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	5.6	<0.29	139	<0.17	<0.27	<0.13	N/A	<0.10	0.22	213	<0.017	<0.017	<0.045	69.1	0.21
4042 W. Vermont Street	6/11/2009	O/S	Present	Absent	<0.22	<0.16	<0.29	<0.29	2.1	<0.29	99.8	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	155	<0.017	0.71	<0.045	73.3	0.21
	6/25/2009	Outside Tap	N/A	N/A	<0.22	<0.16	<0.29	<0.29	1.5	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	7/27/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	0.77	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	8/12/2009	Outside Spigo	N/A	N/A	<0.22	<0.16	<0.29	<0.29	1.2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4044 W. Vermont Street	7/22/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	78.9	<0.17	<0.27	<0.13	483	<0.10	<0.012	168	<0.017	8.5	<0.045	72.4	0.84
4046 W. Vermont Street	7/8/2009	Outside	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4060 W. Vermont Street	6/11/2009	Kitchen Sink	Present	Absent	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	66.8	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	138	<0.017	4.0	<0.045	71.6	0.070
	7/6/2009	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP	NP
4130 W. Vermont Street	6/25/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
4140 W. Vermont Street	7/22/2009	Kitchen Sink	N/A	N/A	<0.22	<0.16	<0.29	<0.29	<0.16	<0.29	100	<0.17	<0.27	<0.13	N/A	<0.10	<0.012	138	<0.017	0.33	<0.045	74	0.58

Table 2. Summary of Analytical Results, Evaluation of Potential Off-site Migration of Chlorinated Volatile Organic Compounds, Allison Transmission, Inc., Speedway, Indiana

	Sample Date	Sample Description	Microbiology		VOCs (ug/L)					Metals (ug/L)					Anions (mg/L)					Wet Chemistry			
			Total Coliform	Escherichia coli	1,1-Dichloroethene	cis-1,2-Dichloroethene	Tetrachloroethene	Trichloroethene	Vinyl Chloride	Arsenic	Barium	Cadmium	Chromium	Mercury	Iron	Lead	Fluoride	Chloride	Nitrite	Nitrate	Ortho-Phosphate	Sulfate	
Monitoring Wells - General Motors Company																							
MW-0102-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0522-S2A	8/6/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0522-S2B	8/6/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0524-S2A	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0524-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0525-S2B	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
MW-0818-S3	8/5/2009		N/A	N/A	<5	<5	<5	<5	<2	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Maximum Contaminant Level (MCL)					7	70	5	5	2	10	2000	5	100	2	300*	15	4	250*	1	10	NE	250*	5**

Notes:

Residential water samples collected and analyzed by Marion County Health Department.

Residential analytical results shared with General Motors by USEPA Region V.

Monitoring Well samples collected by ARCADIS and analyzed by Pace Analytical Services, Inc.

* - Secondary MCL

** - surface water treatment rule

NP - data not provided by USEPA or MCHD

N/A - not analyzed

Constituents presented on table include all analyzed constituents for the following groups: Microbiology, Metals, Anions and Wet Chemistry. A selected list of VOCs identified as constituents of concern related to the Allison Transmission Facility are presented.

Bold and highlighted cells exceed the Maximum Contaminant Level



PROJECTNAME: ---
XREFS:
00473x02



GENERAL MOTORS COMPANY
ALLISON TRANSMISSION, INC.

NO-WELL ZONE NO. 2



DRAWING
2

ARCADIS

Attachment A

Indiana Department of Natural
Resources Water Well Records

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well	Date completed
363476	GASOLINE ALL Y TO W VERNON GO E ON W VERNON TO 4130 WHICH IS ON N SIDE OF ST; WELL IS LOCATED IN FRONT YARD	Aug 11, 2002

Owner-Contractor	Name	Address	Telephone
Owner	JIMMY L PARSONS	7214 PARSONS WAY JR MOORESVILLE IN	(317) 834-9189
Driller	JIMMY L PARSONS	7214 PARSONS WAY JR MOORESVILLE IN	(317) 834-9189
Operator	JIMMY L PARSONS	License: 1639 JR	

Construction Details

Well	Use: Home Depth: 70.0	Drilling method: Cable Tool Pump setting depth:	Pump type: Water quality: CLEAR
Casing	Length: 70.0	Material: SS	Diameter: 4.0
Screen	Length: 4.0	Material: SS	Diameter: 4.0 Slot size: .40

Well Capacity Test	Type of test: Bailing Drawdown: ft.	Test rate: 5.0 gpm for 2.0 hrs. Static water level: 28.0 ft.	Bail Test rate: gpm for hrs. Bailer Drawdown ft.
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Grouting Information	Material: BENTONITE Installation Method: POUR IN	Depth: from 0.0 to 70.0 Number of bags used: 1.0
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Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:
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Administrative	County: MARION Section: of Section 6 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ft N of SL: Ground elevation: Depth to bedrock: UTM Easting:	Township: 15N Range: 3E Topo map: INDIANAPOLIS WEST on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock Aquifer elevation: elevation: UTM Northing:
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Well Log	Top	Bottom	Formation
	0.0	20.0	BR CLAY
	20.0	30.0	S&G
	30.0	36.0	GRAY CLAY
	36.0	55.0	SAND
	55.0	70.0	GREY CLAY

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number 180630	Driving directions to well SPEEDWAY			Date completed Sep 22, 1961
Owner-Contractor	Name Owner CHAS GREEN Driller MANFORD DILAN Operator NOLES CREED	Address 4042 W VERNON 841 W SUMNER AVE License: null	Telephone	
Construction Details				
Well	Use: Home Depth: 35.0	Drilling method: Cable Tool Pump setting depth:	Pump type: Water quality:	
Casing	Length: 35.0	Material:	Diameter: 4.5	
Screen	Length: 0.5	Material:	Diameter: 3.0 Slot size: 6	
Well Capacity Test	Type of test: Pumping Drawdown: 0.0 ft.	Test rate: 10.0 gpm for 1.5 hrs. Static water level: 20.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.	
Grouting Information	Material: Installation Method:	Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:		
Administrative	County: MARION Section: SE of the SW of the NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: UTM Easting:	Township: 15N Range: 3E Topo map: INDIANAPOLIS WEST	on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock elevation: Aquifer elevation: UTM Northing:	
Well Log	Top 0.0 5.0 18.0 25.0	Bottom 5.0 18.0 25.0 35.0	Formation YEL CLAY SANDY HARDPAN DRY SAND S&G	

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well		Date completed
180615			Nov 22, 1973

Owner-Contractor	Name	Address	Telephone
Owner	GERALD PEACOCK	4060 W VERNON	
Driller	HAMILTON BROS INC.	4025 ROCKVILLE RD	
Operator	JOHN OSBORNE	License: null	

Construction Details

Well	Use: Home Depth: 57.0	Drilling method: Rotary Pump setting depth:	Pump type: Water quality:
Casing	Length: 55.0	Material:	Diameter: 4.0
Screen	Length: 2.0	Material:	Diameter: 4.0 Slot size: .060

Well Capacity Test	Type of test: Pumping Drawdown: ft.	Test rate: 10.0 gpm for 1.0 hrs. Static water level: ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.
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Grouting Information	Material:	Depth: from to
	Installation Method:	Number of bags used:

Well Abandonment	Sealing material:	Depth: from to
	Installation Method:	Number of bags used:

Administrative	County: MARION Section: SW of the NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: SL Subdivision name: Ft W of EL: Ft N of SL: Ground elevation: Depth to bedrock: UTM Easting:	Township: 15N Range: 3E Topo map: INDIANAPOLIS WEST
		on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock Aquifer elevation: elevation: UTM Northing:

Well Log	Top	Bottom	Formation
	0.0	6.0	CLAY
	6.0	40.0	S&G
	40.0	57.0	CLAY

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well	Date completed
180271	GO W ON MICHIGAN ST FROM HOLT RD TO GASOLINE ALLEY 500 4100 GO S AND STRAIGHT DO NO CROSS RIVER TO VERMONT, THEN E TO 4110	Oct 01, 1989

Owner-Contractor	Name	Address	Telephone
Owner	M/M KEN BOGER	4110 W VERMONT INDPLS, IN	(317) 244-9707
Driller	JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 784-4264
Operator	SHAWN R. COREY	License: 436	

Construction Details

Well	Use: Home Depth: 38.0	Drilling method: Rotary Pump setting depth: 34.0	Pump type: Submersible Water quality: OK
Casing	Length: 36.0	Material: PVC	Diameter: 5.0
Screen	Length: 3.0	Material: SS	Diameter: 4.0 Slot size: .035

Well Capacity Test	Type of test: Air Drawdown: ft.	Test rate: 20.0 gpm for 1.0 hrs. Static water level: 13.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.
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Grouting Information	Material: BENTONITE Installation Method: PUMP	Depth: from 4.0 to 30.0 Number of bags used: 1.5
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Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:
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Administrative	County: MARION Section: NW of the NW of the SW of Section 5	Township: 15N Range: 3E Topo map: MAYWOOD
	Grant Number:	
	Field located by:	on:
	Courthouse location by:	on:
	Location accepted w/o verification by:	on:
	Subdivision name:	Lot number:
	Ft W of EL:	Ft N of SL:
	Ground elevation: 716.0	Depth to bedrock:
	UTM Easting:	Ft E of WL: Bedrock elevation: Aquifer elevation: 678.0 UTM Northing:

Well Log	Top	Bottom	Formation
	0.0	15.0	CLAY
	15.0	38.0	S&G

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well			Date completed
180251	4028 COSSELL RD			
Owner-Contractor	Name	Address	Telephone	
Owner	RON MATHIS			
Driller	HAMILTON BROS INC	4025 ROCKVILLE RD		
Operator	WHEELER	License: null		
Construction Details				
Well	Use: Home Depth: 40.0	Drilling method: Rotary Pump setting depth:	Pump type: Water quality:	
Casing	Length:	Material:	Diameter: 4.25	
Screen	Length: 3.0	Material:	Diameter: 4.25 Slot size:	
Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: 10.0 gpm for 1.0 hrs.	
	Drawdown: ft.	Static water level: ft.	Bailer Drawdown 23.0 ft.	
Grouting Information	Material: Installation Method:	Depth: from to Number of bags used:		
Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:		
Administrative	County: MARION Section: NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: UTM Easting:	Township: 15N Range: 3E Topo map: MAYWOOD on: on: on: Lot number: Ft E of WL: Bedrock elevation: Aquifer elevation: UTM Northing:		
Well Log	Top	Bottom	Formation	
	0.0	11.0	CLAY	
	11.0	22.0	SAND	
	22.0	26.0	CLAY	
	26.0	40.0	SAND	

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well	Date completed
180226	4050 W VERMONT	Mar 31, 1979

Owner-Contractor	Name	Address	Telephone
Driller	HAMILTON BROS INC	PO BOX24181,4025 ROCKVILLE ROAD,INDIANAPOLIS, IND	
Operator	DESTER HARNESS	License: null	
Company	JEFF LE MAR		

Construction Details

Well	Use: Home Depth: 70.0	Drilling method: Rotary Pump setting depth:	Pump type: Water quality:
Casing	Length: 67.0	Material:	Diameter: 4.0
Screen	Length: 3.0	Material:	Diameter: 4.0 Slot size: 60

Well Capacity Test	Type of test: Drawdown: 10.0 ft.	Test rate: 10.0 gpm for 1.0 hrs. Static water level: 25.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.
---------------------------	---	--	--

Grouting Information	Material:	Depth: from to
	Installation Method:	Number of bags used:

Well Abandonment	Sealing material:	Depth: from to
	Installation Method:	Number of bags used:

Administrative	County: MARION Section: NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: SLP SAW 6/14/79 Subdivision name: Ft W of EL:	Township: 15N Range: 3E Topo map: INDIANAPOLIS WEST on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock elevation: Aquifer elevation: UTM Northing:
	Ground elevation:	Depth to bedrock:
	UTM Easting:	

Well Log	Top	Bottom	Formation
	0.0	5.0	TOPSOIL & CLAY
	5.0	40.0	GRAV
	40.0	70.0	CLAY

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well .5 MI W OF GASOLINE ALLEY ON COSSELL RD ON S SIDE (WHERE COSSELL RD DEAD ENDS AT HOLT RD) (4017 COSSELL RD)			Date completed
56682				Oct 05, 1993
Owner-Contractor	Name CARL EDWARDS PERRY WELL DRILLING JEFF FLEMING	Address 4017 COSSELL INDPLS IN 4946 SR 32 W ANDERSON IN License: 1074	Telephone (000) 241-6027 (000) 642-7105	
Construction Details				
Well	Use: Home Depth: 260.0	Drilling method: Rotary Pump setting depth:	Pump type: Submersible Water quality:	
Casing	Length: 139.0	Material: PVC	Diameter: 5.0	
Screen	Length:	Material:	Diameter: Slot size:	
Well Capacity Test	Type of test: Air Drawdown: ft.	Test rate: 15.0 gpm for 1.0 hrs. Static water level: 71.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.	
Grouting Information	Material: BNSL Installation Method: TREM	Depth: from 25.0 to 80.0 Number of bags used: 2.25		
Well Abandonment	Sealing material: Installation Method:	Depth: from to \ Number of bags used:		
Administrative	County: MARION Section: NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: Subdivision name: Ft W of EL: Ground elevation: UTM Easting:	Township: 15N Range: 3E Topo map: MAYWOOD on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock elevation: Aquifer elevation: UTM Northing:		
Well Log	Top	Bottom	Formation	
	0.0	3.0	TOP SOIL	
	3.0	37.0	S & G	
	37.0	44.0	GRAY CLAY	
	44.0	49.0	S & G	
	49.0	67.0	GRAY CLAY	
	67.0	70.0	S & G	
	70.0	78.0	GRAY CLAY	
	78.0	136.0	BLK SHALE	
	136.0	260.0	STONE	
Comments				

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well		Date completed
54030			Nov 28, 1973

Owner-Contractor	Name	Address	Telephone
Owner	KEN BOGER	4110 W VERNON	
Driller	HAMILTON BROS INC.	4025 ROCKVILLE RD	
Operator	WARREN HARNESS	License: null	

Construction Details

Well	Use: Home Depth: 60.0	Drilling method: Rotary Pump setting depth:	Pump type: Water quality:
Casing	Length:	Material:	Diameter: 4.0
Screen	Length: 2.0	Material:	Diameter: 4.0 Slot size: .060

Well Capacity Test	Type of test: Pumping Drawdown: ft.	Test rate: 15.0 gpm for 1.0 hrs. Static water level: ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.
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Grouting Information	Material:	Depth: from to
	Installation Method:	Number of bags used:

Well Abandonment	Sealing material:	Depth: from to
	Installation Method:	Number of bags used:

Administrative	County: MARION Section: SW of the NW of Section 5 Grant Number: Field located by: Courthouse location by: Location accepted w/o verification by: SL Subdivision name: Ft W of EL: Ft N of SL: Ground elevation: Depth to bedrock: UTM Easting:	Township: 15N Range: 3E Topo map: INDIANAPOLIS WEST
		on: on: on: Lot number: Ft E of WL: Ft S of NL: Bedrock elevation: Aquifer elevation: UTM Northing:

Well Log	Top	Bottom	Formation
	0.0	7.0	CLAY
	7.0	44.0	S&G
	44.0	60.0	CLAY

Comments

Record of Water Well**Indiana Department of Natural Resources**

Reference Number	Driving directions to well	Date completed
54029	GO W ON MICHIGAN ST FROM HOLT RD TO GASOLINE ALLEY 500N 6100 GO S AND STRAIGHT DO NOT CROSS RIVER TO VERMONT THEN E TO 4110	Oct 01, 1989

Owner-Contractor	Name	Address	Telephone
Owner	M/M KEN BOGER	4110 W VERMONT INDPLS, IN	(317) 244-4727
Driller	JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 789-4244
Operator	SHAWN R. COREY	License: 436	

Construction Details

Well	Use: Home Depth: 38.0	Drilling method: Rotary Pump setting depth: 34.0	Pump type: Submersible Water quality: OK
Casing	Length: 36.0	Material: PVC	Diameter: 5.0
Screen	Length: 3.0	Material: SS	Diameter: 4.0 Slot size: .035

Well Capacity Test	Type of test: Air Drawdown: ft.	Test rate: 20.0 gpm for 1.0 hrs. Static water level: 13.0 ft.	BailTest rate: gpm for hrs. Bailer Drawdown ft.
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Grouting Information	Material: BENTONITE Installation Method: PUMP	Depth: from 4.0 to 30.0 Number of bags used: 1.5
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Well Abandonment	Sealing material: Installation Method:	Depth: from to Number of bags used:
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Administrative	County: MARION Section: NE of the NW of the SW of Section 5	Township: 15N Range: 3E Topo map: MAYWOOD
	Grant Number:	
	Field located by: MCBN	on: Jan 01, 1992
	Courthouse location by:	on:
	Location accepted w/o verification by:	on:
	Subdivision name:	Lot number:
	Ft W of EL:	Ft E of WL:
	Ground elevation: 716.0	Ft S of NL:
	Depth to bedrock:	Bedrock elevation:
	UTM Easting:	Aquifer elevation: 678.0 UTM Northing:

Well Log	Top	Bottom	Formation
	0.0	15.0	CLAY
	15.0	38.0	S&G

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
180281	S OF EAGLE CREEK PARK.	Jun 15, 1961

Owner-Contractor	Name	Address	Telephone
Owner	MR KENNETH BOGER	4110 W VERNONT ST	
Driller	INDPLS PUMP & EQUIP CO.	2720 BRILL RD	
Operator	JOE STOVALL	License: null	

Construction Details

Well	Use: HOME	Drilling method: Cable Tool	Pump type:
	Depth: 40.0	Pump setting depth:	Water quality:
Casing	Length: 37.0	Material:	Diameter: 4.5
Screen	Length: 5.4	Material:	Diameter: 3.0 Slot size: #6 GA

Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: 15.0 gpm for 3.0 hrs.
	Drawdown: ft.	Static water level: 20.0 ft.	Bailer Drawdown 30.0 ft.

Grouting Information	Material:	Depth: from to	Number of bags used:
	Installation Method:		

Well Abandonment	Sealing material:	Depth: from to	Number of bags used:
	Installation Method:		

Administrative	County: Marion	Township: 15N Range: 3E	Topo map: Indianapolis West
	Section: SE of the SW of the NW of Section 5		

Grant Number:

Field located by: D JORDAN **on:** Feb 01, 1962

Courthouse location by: **on:**

Location accepted w/o verification by: **on:**

Subdivision name: **Lot number:**

Ft W of EL: **Ft N of SL:** 2750.0 **Ft E of WL:** 1000.0 **Ft S of NL:**

Ground elevation: 715.0 **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:** 675.0

UTM Easting: 565868.5 **UTM Northing:** 4402579.5

Well Log	Top	Bottom	Formation
	0.0	18.0	RED CLAY
	18.0	28.0	GRAV & SAND
	28.0	34.0	BLUE MUD
	34.0	36.0	SAND
	36.0	40.0	RED GRAV

Comments

Record of Water Well

Indiana Department of Natural Resources

<i>Reference Number</i>	<i>Driving directions to well</i>	<i>Date completed</i>
54036	4012 COSSELL RD.	Jan 13, 1977

<i>Owner-Contractor</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Owner	LEON PEDIGO		
Driller	HAMILTON BROS INC.	PO BOX 24181, INDPLS IN	
Operator	ED RANDOLPH	License: null	
Company	PEDIGO & YOUNG		

Construction Details

<i>Well</i>	<i>Use:</i> HOME <i>Depth:</i> 62.0	<i>Drilling method:</i> Cable Tool <i>Pump setting depth:</i>	<i>Pump type:</i> <i>Water quality:</i>
Casing	<i>Length:</i> 59.0	<i>Material:</i>	<i>Diameter:</i> 4.0
Screen	<i>Length:</i> 3.0	<i>Material:</i>	<i>Diameter:</i> 4.0 <i>Slot size:</i> .060

<i>Well Capacity Test</i>	<i>Type of test:</i> PUMPING <i>Drawdown:</i> ft.	<i>Test rate:</i> 10.0 gpm for 1.0 hrs. <i>Static water level:</i> ft.	<i>BailTest rate:</i> gpm for hrs. <i>Bailer Drawdown</i> ft.
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<i>Grouting Information</i>	<i>Material:</i>	<i>Depth:</i> from to
	<i>Installation Method:</i>	<i>Number of bags used:</i>

<i>Well Abandonment</i>	<i>Sealing material:</i>	<i>Depth:</i> from to
	<i>Installation Method:</i>	<i>Number of bags used:</i>

<i>Administrative</i>	<i>County:</i> Marion <i>Section:</i> SW of the SE of the NW of Section 5	<i>Township:</i> 15N <i>Range:</i> 3E <i>Topo map:</i> Indianapolis West
	<i>Grant Number:</i>	
	<i>Field located by:</i> MCBN	<i>on:</i> Jan 01, 1992
	<i>Courthouse location by:</i>	<i>on:</i>
	<i>Location accepted w/o verification by:</i> WH	<i>on:</i> Jul 07, 1977
	<i>Subdivision name:</i>	<i>Lot number:</i>
	<i>Ft W of EL:</i>	<i>Ft E of WL:</i>
	<i>Ground elevation:</i> 717.0	<i>Ft S of NL:</i>
	<i>UTM Easting:</i> 566060.0	<i>Bedrock elevation:</i> <i>Aquifer elevation:</i> 655.0 <i>UTM Northing:</i> 4402600.0

<i>Well Log</i>	<i>Top</i>	<i>Bottom</i>	<i>Formation</i>
	0.0	1.0	TOPSOIL & CLAY
	1.0	35.0	S&G
	35.0	62.0	BR CLAY

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
54035	S OF MICHIGAN ST ON ROENA TO VERMONT. E TO 4044 W VERMONT.	Jan 29, 1981

Owner-Contractor	Name	Address	Telephone
Owner	ALBERT RAY	4044 W VERMONT, INDPLS IN	
Driller	MILLS PUMP & WELL DRILLING INC	2508 W MICHIGAN ST, INDPLS IN	
Operator	RUSSELL MILLS	License: null	

Construction Details

Well	Use: HOME	Drilling method: Rotary	Pump type:
Depth:	75.0	Pump setting depth:	Water quality:
Casing	Length: 72.0	Material:	Diameter: 4.0
Screen	Length: 3.0	Material:	Diameter: 4.0 Slot size: 40

Well Capacity Test	Type of test:	Test rate: gpm for hrs.	BailTest rate: 10.0 gpm for 1.0 hrs.
	Drawdown: ft.	Static water level: 20.0 ft.	Bailer Drawdown 10.0 ft.

Grouting Information	Material:	Depth: from to	
	Installation Method:	Number of bags used:	

Well Abandonment	Sealing material:	Depth: from to	
	Installation Method:	Number of bags used:	

Administrative	County: Marion	Township: 15N Range: 3E	
	Section: NW of the NE of the SW of Section 5	Topo map: Indianapolis West	

Grant Number:

Field located by: MCBN **on:** Jan 01, 1992

Courthouse location by: **on:**

Location accepted w/o verification by: BRUNS **on:** Dec 21, 1982

Subdivision name: **Lot number:**

Ft W of EL: **Ft N of SL:** **Ft E of WL:** **Ft S of NL:**

Ground elevation: 717.0 **Depth to bedrock:** **Bedrock elevation:** **Aquifer elevation:** 642.0

UTM Easting: 566010.0 **UTM Northing:** 4402525.0

Well Log	Top	Bottom	Formation
	0.0	1.0	BLANK
	1.0	21.0	CLAY GRAY
	21.0	70.0	CLAY BLUE
	70.0	75.0	SAND BLUE

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
54034	4017 COSSELL RD	Mar 23, 1977

Owner-Contractor	Name	Address	Telephone
Owner	ALBERT SOLEMAN		
Driller	HAMILTON BROS INC	PO BOX 24181 INDPLS, IND 46224	
Operator	WOODIE BURKHART	License: null	

Construction Details

Well	Use: HOME	Drilling method: Cable Tool	Pump type:
	Depth: 54.0	Pump setting depth:	Water quality:
Casing	Length:	Material:	Diameter: 4.0
Screen	Length:	Material:	Diameter: 3.0 Slot size:

Well Capacity Test	Type of test:	Test rate: 10.0 gpm for 1.0 hrs.	BailTest rate: gpm for hrs.
	Drawdown: ft.	Static water level: ft.	Bailer Drawdown ft.

Grouting Information	Material:	Depth: from to	
	Installation Method:	Number of bags used:	

Well Abandonment	Sealing material:	Depth: from to	
	Installation Method:	Number of bags used:	

Administrative	County: Marion	Township: 15N Range: 3E	
	Section: NW of the NE of the SW of Section 5	Topo map:	Indianapolis West

Grant Number:			
Field located by: MCBH		on: Jan 01, 1992	
Courthouse location by:		on:	
Location accepted w/o verification by: WH		on: Jul 07, 1977	
Subdivision name:		Lot number:	
Ft W of EL:	Ft N of SL:	Ft E of WL:	Ft S of NL:
Ground elevation: 717.0	Depth to bedrock:	Bedrock elevation:	Aquifer elevation: 663.0
UTM Easting: 566060.0		UTM Northing: 4402550.0	

Well Log	Top	Bottom	Formation
	0.0	35.0	TOPSOIL & CLAY
	35.0	54.0	S & G

Comments

Record of Water Well

Indiana Department of Natural Resources

<i>Reference Number</i>	<i>Driving directions to well</i>	<i>Date completed</i>
54028		Nov 07, 1970

<i>Owner-Contractor</i>	<i>Name</i>	<i>Address</i>	<i>Telephone</i>
Owner	ROBERT NORMAN	4024 COSSELL RD	
Driller	HAMILTON BROS INC.		
Operator	TERRY HAMILTON	License: null	

Construction Details

<i>Well</i>	<i>Use:</i> HOME	<i>Drilling method:</i> Rotary	<i>Pump type:</i>
	<i>Depth:</i> 59.0	<i>Pump setting depth:</i>	<i>Water quality:</i>
<i>Casing</i>	<i>Length:</i> 57.0	<i>Material:</i>	<i>Diameter:</i> 4.0
<i>Screen</i>	<i>Length:</i> 2.0	<i>Material:</i>	<i>Diameter:</i> 3.0 <i>Slot size:</i> #6

<i>Well Capacity Test</i>	<i>Type of test:</i> PUMPING	<i>Test rate:</i> 10.0 gpm for 2.0 hrs.	<i>BailTest rate:</i> gpm for hrs.
	<i>Drawdown:</i> ft.	<i>Static water level:</i> ft.	<i>Bailer Drawdown</i> ft.

<i>Grouting Information</i>	<i>Material:</i>	<i>Depth:</i> from to	
	<i>Installation Method:</i>	<i>Number of bags used:</i>	

<i>Well Abandonment</i>	<i>Sealing material:</i>	<i>Depth:</i> from to	
	<i>Installation Method:</i>	<i>Number of bags used:</i>	

<i>Administrative</i>	<i>County:</i> Marion	<i>Township:</i> 15N	<i>Range:</i> 3E
	<i>Section:</i> SE of the SW of the NW of Section 5		<i>Topo map:</i> Indianapolis West
	<i>Grant Number:</i>		
	<i>Field located by:</i> MCBN	<i>on:</i>	Jan 01, 1992
	<i>Courthouse location by:</i>	<i>on:</i>	
	<i>Location accepted w/o verification by:</i>	<i>on:</i>	
	<i>Subdivision name:</i>	<i>Lot number:</i>	
	<i>Ft W of EL:</i>	<i>Ft N of SL:</i>	<i>Ft E of WL:</i>
	Ground elevation: 718.0	Depth to bedrock:	Bedrock elevation: Aquifer elevation: 658.0
	UTM Easting: 565960.0		UTM Northing: 4402625.0

<i>Well Log</i>	<i>Top</i>	<i>Bottom</i>	<i>Formation</i>
	0.0	30.0	CLAY
	30.0	40.0	SAND
	40.0	57.0	CLAY
	57.0	60.0	SAND

Comments

Record of Water Well

Indiana Department of Natural Resources

Reference Number	Driving directions to well	Date completed
54027	FROM INDIANAPOLIS, W ON MICHIGAN RD FROM HOLT RD TO GASOLINE ALLEY, S GO STRAIGHT TO VERNON E TO 4120 DO NOT CROSS RIVER	Sep 01, 1989

Owner-Contractor Name	Address	Telephone
Owner MR. & MRS. FRED MUELLER	4120 W VERNON (400N4100W) INDPLS, IN	(317) 244-7590
Driller JOSEPH HUSER SERVICES INC.	5728 S EMERSON INDPLS, IN	(317) 784-4264
Operator SHAWN R. COREY	License: 436	

Construction Details

Well	Use: HOME	Drilling method: Rotary	Pump type: SUBMERSIBLE
	Depth: 50.0	Pump setting depth: 45.0	Water quality: OK
Casing	Length: 48.0	Material: PVC	Diameter: 5.0
Screen	Length: 3.0	Material: SS	Diameter: 4.0 Slot size: .035

Well Capacity Test	Type of test: AIR	Test rate: 20.0 gpm for 1.0 hrs.	BailTest rate: gpm for hrs.
	Drawdown: ft.	Static water level: 18.0 ft.	Bailer Drawdown ft.

Grouting Information	Material: BENTONITE	Depth: from 4.0 to 40.0
	Installation Method: PUMP	Number of bags used: 1.5

Well Abandonment	Sealing material:	Depth: from to
	Installation Method:	Number of bags used:

Administrative	County: Marion	Township: 15N	Range: 3E
	Section: NE of the NW of the SW of Section 5	Topo map: Indianapolis West	

Grant Number:

Field located by: MCBN	on: Jan 01, 1992
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Courthouse location by:	on:
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Location accepted w/o verification by:	on:
---	------------

Subdivision name:	Lot number:
--------------------------	--------------------

Ft W of EL:	Ft N of SL:	Ft E of WL:	Ft S of NL:
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Ground elevation: 716.0	Depth to bedrock:	Bedrock elevation:	Aquifer elevation: 666.0
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UTM Easting: 565841.8	UTM Northing: 4402515.5
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Well Log	Top	Bottom	Formation
	0.0	7.0	BR CLAY
	7.0	11.0	SANDY CLAY
	11.0	39.0	S&G
	39.0	45.0	GREY CLAY
	45.0	50.0	S&G

Comments	MC666
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ARCADIS

Attachment B

Laboratory Analytical Report

August 11, 2009

Ms. Susan Scrocchi
Conestoga-Rovers and Associates
2055 Niagara Falls Blvd
Suite 2
Niagara Falls, NY 14304

RE: Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Dear Ms. Scrocchi:

Enclosed are the analytical results for sample(s) received by the laboratory on August 06, 2009. The results relate only to the samples included in this report. Results reported herein conform to the most current NELAC standards, where applicable, unless otherwise narrated in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Donna Spyker

donna.spyker@pacelabs.com
Project Manager

Illinois/NELAC Certification #: 100418
Indiana Certification #: C-49-06
Kansas Certification #: E-10247
Kentucky Certification #: 0042
Ohio VAP: CL0065
Pennsylvania: 68-00791
West Virginia Certification #: 330

Enclosures

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: AT Stage III /IN473.0020.00004
 Pace Project No.: 5029030

Lab ID	Sample ID	Matrix	Date Collected	Date Received
5029030001	TB-1(080509)RW	Water	08/05/09 08:00	08/06/09 17:01
5029030002	MW-0818-S3(080509)	Water	08/05/09 11:34	08/06/09 17:01
5029030003	FD-1(080509)RW	Water	08/05/09 08:00	08/06/09 17:01
5029030004	MW-0102-S2B(080509)	Water	08/05/09 12:43	08/06/09 17:01
5029030005	MW-0525-S2(080509)	Water	08/05/09 14:12	08/06/09 17:01
5029030006	MW-0524-S2A(080509)	Water	08/05/09 15:19	08/06/09 17:01
5029030007	MW-0524-S2B(080509)	Water	08/05/09 16:24	08/06/09 17:01
5029030008	MW-0522-S2A(080609)	Water	08/06/09 08:18	08/06/09 17:01
5029030009	MW-0522-S2B(080609)	Water	08/06/09 09:24	08/06/09 17:01

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: AT Stage III /IN473.0020.00004
 Pace Project No.: 5029030

Lab ID	Sample ID	Method	Analysts	Analytes Reported
5029030001	TB-1(080509)RW	EPA 8260	RSR	51
5029030002	MW-0818-S3(080509)	EPA 8260	RSR	51
5029030003	FD-1(080509)RW	EPA 8260	RSR	51
5029030004	MW-0102-S2B(080509)	EPA 8260	RSR	51
5029030005	MW-0525-S2(080509)	EPA 8260	RSR	51
5029030006	MW-0524-S2A(080509)	EPA 8260	RSR	51
5029030007	MW-0524-S2B(080509)	EPA 8260	RSR	51
5029030008	MW-0522-S2A(080609)	EPA 8260	RSR	51
5029030009	MW-0522-S2B(080609)	EPA 8260	RSR	51

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: TB-1(080509)RW	Lab ID: 5029030001	Collected: 08/05/09 08:00	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 12:55	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 12:55	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 12:55	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 12:55	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 12:55	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 12:55	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 12:55	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 12:55	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 12:55	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 12:55	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 12:55	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 12:55	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 12:55	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 12:55	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 12:55	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 12:55	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 12:55	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 12:55	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 12:55	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 12:55	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 12:55	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 12:55	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 12:55	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 12:55	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 12:55	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 12:55	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 12:55	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 12:55	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 12:55	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 12:55	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 12:55	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 12:55	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 12:55	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 12:55	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 12:55	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 12:55	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 12:55	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 12:55	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 12:55	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 12:55	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 12:55	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 12:55	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 12:55	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 12:55	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 12:55	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 12:55	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 12:55	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: TB-1(080509)RW	Lab ID: 5029030001	Collected: 08/05/09 08:00	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								Analytical Method: EPA 8260
Xylene (Total)	ND	ug/L		10.0	1			08/07/09 12:55 1330-20-7
Dibromofluoromethane (S)	97 %		80-123	1				08/07/09 12:55 1868-53-7
4-Bromofluorobenzene (S)	98 %		70-126	1				08/07/09 12:55 460-00-4
Toluene-d8 (S)	93 %		80-116	1				08/07/09 12:55 2037-26-5

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0818-S3(080509)	Lab ID: 5029030002	Collected: 08/05/09 11:34	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 13:28	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 13:28	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 13:28	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 13:28	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 13:28	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 13:28	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 13:28	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 13:28	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 13:28	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 13:28	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 13:28	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 13:28	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 13:28	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 13:28	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 13:28	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 13:28	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 13:28	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 13:28	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 13:28	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 13:28	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 13:28	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 13:28	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 13:28	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 13:28	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 13:28	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 13:28	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 13:28	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 13:28	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 13:28	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 13:28	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 13:28	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 13:28	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 13:28	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 13:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 13:28	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 13:28	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 13:28	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 13:28	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 13:28	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 13:28	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 13:28	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 13:28	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 13:28	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 13:28	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 13:28	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 13:28	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 13:28	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0818-S3(080509)	Lab ID: 5029030002	Collected: 08/05/09 11:34	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								Analytical Method: EPA 8260
Xylene (Total)	ND	ug/L	10.0	1			1330-20-7	
Dibromofluoromethane (S)	101	%	80-123	1			1868-53-7	
4-Bromofluorobenzene (S)	103	%	70-126	1			460-00-4	
Toluene-d8 (S)	101	%	80-116	1			2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: FD-1(080509)RW	Lab ID: 5029030003	Collected: 08/05/09 08:00	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 14:01	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 14:01	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 14:01	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 14:01	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 14:01	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 14:01	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 14:01	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 14:01	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 14:01	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 14:01	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 14:01	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 14:01	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 14:01	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 14:01	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 14:01	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 14:01	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:01	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:01	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:01	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 14:01	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 14:01	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 14:01	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:01	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:01	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:01	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 14:01	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 14:01	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 14:01	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 14:01	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 14:01	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 14:01	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 14:01	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 14:01	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 14:01	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 14:01	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 14:01	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 14:01	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 14:01	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 14:01	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 14:01	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 14:01	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 14:01	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 14:01	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 14:01	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 14:01	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 14:01	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 14:01	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: FD-1(080509)RW	Lab ID: 5029030003	Collected: 08/05/09 08:00	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV								Analytical Method: EPA 8260
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 14:01	1330-20-7	
Dibromofluoromethane (S)	95 %		80-123	1		08/07/09 14:01	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		08/07/09 14:01	460-00-4	
Toluene-d8 (S)	99 %		80-116	1		08/07/09 14:01	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0102-S2B(080509)	Lab ID: 5029030004	Collected: 08/05/09 12:43	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 14:34	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 14:34	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 14:34	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 14:34	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 14:34	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 14:34	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 14:34	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 14:34	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 14:34	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 14:34	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 14:34	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 14:34	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 14:34	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 14:34	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 14:34	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 14:34	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:34	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:34	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 14:34	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 14:34	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 14:34	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 14:34	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:34	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:34	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 14:34	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 14:34	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 14:34	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 14:34	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 14:34	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 14:34	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 14:34	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 14:34	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 14:34	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 14:34	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 14:34	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 14:34	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 14:34	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 14:34	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 14:34	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 14:34	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 14:34	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 14:34	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 14:34	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 14:34	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 14:34	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 14:34	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 14:34	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0102-S2B(080509)	Lab ID: 5029030004	Collected: 08/05/09 12:43	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 14:34	1330-20-7	
Dibromofluoromethane (S)	98 %		80-123	1		08/07/09 14:34	1868-53-7	
4-Bromofluorobenzene (S)	101 %		70-126	1		08/07/09 14:34	460-00-4	
Toluene-d8 (S)	100 %		80-116	1		08/07/09 14:34	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0525-S2(080509)	Lab ID: 5029030005	Collected: 08/05/09 14:12	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 16:13	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 16:13	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 16:13	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 16:13	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 16:13	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 16:13	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 16:13	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 16:13	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 16:13	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 16:13	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 16:13	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 16:13	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 16:13	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 16:13	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 16:13	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 16:13	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:13	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:13	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:13	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 16:13	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 16:13	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 16:13	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:13	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:13	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:13	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 16:13	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 16:13	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 16:13	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 16:13	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 16:13	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 16:13	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 16:13	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 16:13	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 16:13	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 16:13	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 16:13	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 16:13	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 16:13	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 16:13	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 16:13	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 16:13	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 16:13	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 16:13	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 16:13	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 16:13	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 16:13	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 16:13	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0525-S2(080509)	Lab ID: 5029030005	Collected: 08/05/09 14:12	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 16:13	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		08/07/09 16:13	1868-53-7	
4-Bromofluorobenzene (S)	99 %		70-126	1		08/07/09 16:13	460-00-4	
Toluene-d8 (S)	101 %		80-116	1		08/07/09 16:13	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2A(080509)	Lab ID: 5029030006	Collected: 08/05/09 15:19	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 16:45	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 16:45	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 16:45	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 16:45	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 16:45	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 16:45	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 16:45	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 16:45	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 16:45	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 16:45	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 16:45	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 16:45	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 16:45	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 16:45	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 16:45	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 16:45	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:45	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:45	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 16:45	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 16:45	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 16:45	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 16:45	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:45	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:45	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 16:45	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 16:45	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 16:45	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 16:45	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 16:45	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 16:45	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 16:45	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 16:45	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 16:45	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 16:45	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 16:45	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 16:45	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 16:45	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 16:45	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 16:45	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 16:45	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 16:45	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 16:45	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 16:45	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 16:45	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 16:45	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 16:45	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 16:45	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0524-S2A(080509)	Lab ID: 5029030006	Collected: 08/05/09 15:19	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 16:45	1330-20-7	
Dibromofluoromethane (S)	100	%	80-123	1		08/07/09 16:45	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		08/07/09 16:45	460-00-4	
Toluene-d8 (S)	102	%	80-116	1		08/07/09 16:45	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0524-S2B(080509)	Lab ID: 5029030007	Collected: 08/05/09 16:24	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 17:18	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 17:18	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 17:18	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 17:18	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 17:18	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 17:18	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 17:18	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 17:18	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 17:18	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 17:18	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 17:18	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 17:18	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 17:18	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 17:18	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 17:18	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 17:18	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:18	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:18	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:18	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 17:18	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 17:18	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 17:18	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:18	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:18	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:18	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 17:18	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 17:18	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 17:18	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 17:18	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 17:18	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 17:18	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 17:18	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 17:18	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 17:18	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 17:18	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 17:18	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 17:18	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 17:18	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 17:18	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 17:18	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 17:18	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 17:18	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 17:18	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 17:18	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 17:18	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 17:18	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 17:18	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0524-S2B(080509)	Lab ID: 5029030007	Collected: 08/05/09 16:24	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 17:18	1330-20-7	
Dibromofluoromethane (S)	103 %		80-123	1		08/07/09 17:18	1868-53-7	
4-Bromofluorobenzene (S)	96 %		70-126	1		08/07/09 17:18	460-00-4	
Toluene-d8 (S)	102 %		80-116	1		08/07/09 17:18	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2A(080609)	Lab ID: 5029030008	Collected: 08/06/09 08:18	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 17:51	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 17:51	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 17:51	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 17:51	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 17:51	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 17:51	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 17:51	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 17:51	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 17:51	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 17:51	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 17:51	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 17:51	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 17:51	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 17:51	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 17:51	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 17:51	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:51	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:51	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 17:51	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 17:51	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 17:51	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 17:51	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:51	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:51	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 17:51	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 17:51	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 17:51	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 17:51	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 17:51	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 17:51	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 17:51	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 17:51	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 17:51	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 17:51	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 17:51	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 17:51	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 17:51	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 17:51	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 17:51	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 17:51	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 17:51	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 17:51	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 17:51	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 17:51	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 17:51	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 17:51	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 17:51	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0522-S2A(080609)	Lab ID: 5029030008	Collected: 08/06/09 08:18	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 17:51	1330-20-7	
Dibromofluoromethane (S)	108	%	80-123	1		08/07/09 17:51	1868-53-7	
4-Bromofluorobenzene (S)	93	%	70-126	1		08/07/09 17:51	460-00-4	
Toluene-d8 (S)	99	%	80-116	1		08/07/09 17:51	2037-26-5	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Sample: MW-0522-S2B(080609)	Lab ID: 5029030009	Collected: 08/06/09 09:24	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV	Analytical Method: EPA 8260							
Acetone	ND ug/L		100	1		08/07/09 18:24	67-64-1	
Benzene	ND ug/L		5.0	1		08/07/09 18:24	71-43-2	
Bromodichloromethane	ND ug/L		5.0	1		08/07/09 18:24	75-27-4	
Bromoform	ND ug/L		5.0	1		08/07/09 18:24	75-25-2	
Bromomethane	ND ug/L		5.0	1		08/07/09 18:24	74-83-9	
2-Butanone (MEK)	ND ug/L		25.0	1		08/07/09 18:24	78-93-3	
Carbon disulfide	ND ug/L		10.0	1		08/07/09 18:24	75-15-0	
Carbon tetrachloride	ND ug/L		5.0	1		08/07/09 18:24	56-23-5	
Chlorobenzene	ND ug/L		5.0	1		08/07/09 18:24	108-90-7	
Chloroethane	ND ug/L		5.0	1		08/07/09 18:24	75-00-3	
Chloroform	ND ug/L		5.0	1		08/07/09 18:24	67-66-3	
Chloromethane	ND ug/L		5.0	1		08/07/09 18:24	74-87-3	
Cyclohexane	ND ug/L		100	1		08/07/09 18:24	110-82-7	
1,2-Dibromo-3-chloropropane	ND ug/L		5.0	1		08/07/09 18:24	96-12-8	
Dibromochloromethane	ND ug/L		5.0	1		08/07/09 18:24	124-48-1	
1,2-Dibromoethane (EDB)	ND ug/L		5.0	1		08/07/09 18:24	106-93-4	
1,2-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 18:24	95-50-1	
1,3-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 18:24	541-73-1	
1,4-Dichlorobenzene	ND ug/L		5.0	1		08/07/09 18:24	106-46-7	
Dichlorodifluoromethane	ND ug/L		5.0	1		08/07/09 18:24	75-71-8	
1,1-Dichloroethane	ND ug/L		5.0	1		08/07/09 18:24	75-34-3	
1,2-Dichloroethane	ND ug/L		5.0	1		08/07/09 18:24	107-06-2	
1,1-Dichloroethene	ND ug/L		5.0	1		08/07/09 18:24	75-35-4	
cis-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 18:24	156-59-2	
trans-1,2-Dichloroethene	ND ug/L		5.0	1		08/07/09 18:24	156-60-5	
1,2-Dichloropropane	ND ug/L		5.0	1		08/07/09 18:24	78-87-5	
cis-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 18:24	10061-01-5	
trans-1,3-Dichloropropene	ND ug/L		5.0	1		08/07/09 18:24	10061-02-6	
Ethylbenzene	ND ug/L		5.0	1		08/07/09 18:24	100-41-4	
2-Hexanone	ND ug/L		25.0	1		08/07/09 18:24	591-78-6	
Isopropylbenzene (Cumene)	ND ug/L		5.0	1		08/07/09 18:24	98-82-8	
Methyl acetate	ND ug/L		50.0	1		08/07/09 18:24	79-20-9	
Methylcyclohexane	ND ug/L		50.0	1		08/07/09 18:24	108-87-2	
Methylene chloride	ND ug/L		5.0	1		08/07/09 18:24	75-09-2	
4-Methyl-2-pentanone (MIBK)	ND ug/L		25.0	1		08/07/09 18:24	108-10-1	
Methyl-tert-butyl ether	ND ug/L		4.0	1		08/07/09 18:24	1634-04-4	
Styrene	ND ug/L		5.0	1		08/07/09 18:24	100-42-5	
1,1,2,2-Tetrachloroethane	ND ug/L		5.0	1		08/07/09 18:24	79-34-5	
Tetrachloroethene	ND ug/L		5.0	1		08/07/09 18:24	127-18-4	
Toluene	ND ug/L		5.0	1		08/07/09 18:24	108-88-3	
1,2,4-Trichlorobenzene	ND ug/L		5.0	1		08/07/09 18:24	120-82-1	
1,1,1-Trichloroethane	ND ug/L		5.0	1		08/07/09 18:24	71-55-6	
1,1,2-Trichloroethane	ND ug/L		5.0	1		08/07/09 18:24	79-00-5	
Trichloroethene	ND ug/L		5.0	1		08/07/09 18:24	79-01-6	
Trichlorofluoromethane	ND ug/L		5.0	1		08/07/09 18:24	75-69-4	
1,1,2-Trichlorotrifluoroethane	ND ug/L		5.0	1		08/07/09 18:24	76-13-1	
Vinyl chloride	ND ug/L		2.0	1		08/07/09 18:24	75-01-4	

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ANALYTICAL RESULTS

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

Sample: MW-0522-S2B(080609)	Lab ID: 5029030009	Collected: 08/06/09 09:24	Received: 08/06/09 17:01	Matrix: Water				
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
8260 MSV		Analytical Method: EPA 8260						
Xylene (Total)	ND	ug/L	10.0	1		08/07/09 18:24	1330-20-7	
Dibromofluoromethane (S)	104	%	80-123	1		08/07/09 18:24	1868-53-7	
4-Bromofluorobenzene (S)	96	%	70-126	1		08/07/09 18:24	460-00-4	
Toluene-d8 (S)	103	%	80-116	1		08/07/09 18:24	2037-26-5	

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QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

QC Batch:	MSV/17872	Analysis Method:	EPA 8260
QC Batch Method:	EPA 8260	Analysis Description:	8260 MSV
Associated Lab Samples:	5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008, 5029030009		

METHOD BLANK: 331288

Matrix: Water

Associated Lab Samples: 5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008,
5029030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1-Trichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2,2-Tetrachloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2-Trichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1-Dichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,1-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
1,2,4-Trichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dibromo-3-chloropropane	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dibromoethane (EDB)	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichloroethane	ug/L	ND	5.0	08/07/09 09:06	
1,2-Dichloropropane	ug/L	ND	5.0	08/07/09 09:06	
1,3-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
1,4-Dichlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
2-Butanone (MEK)	ug/L	ND	25.0	08/07/09 09:06	
2-Hexanone	ug/L	ND	25.0	08/07/09 09:06	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	25.0	08/07/09 09:06	
Acetone	ug/L	ND	100	08/07/09 09:06	
Benzene	ug/L	ND	5.0	08/07/09 09:06	
Bromodichloromethane	ug/L	ND	5.0	08/07/09 09:06	
Bromoform	ug/L	ND	5.0	08/07/09 09:06	
Bromomethane	ug/L	ND	5.0	08/07/09 09:06	
Carbon disulfide	ug/L	ND	10.0	08/07/09 09:06	
Carbon tetrachloride	ug/L	ND	5.0	08/07/09 09:06	
Chlorobenzene	ug/L	ND	5.0	08/07/09 09:06	
Chloroethane	ug/L	ND	5.0	08/07/09 09:06	
Chloroform	ug/L	ND	5.0	08/07/09 09:06	
Chloromethane	ug/L	ND	5.0	08/07/09 09:06	
cis-1,2-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
cis-1,3-Dichloropropene	ug/L	ND	5.0	08/07/09 09:06	
Cyclohexane	ug/L	ND	100	08/07/09 09:06	
Dibromochloromethane	ug/L	ND	5.0	08/07/09 09:06	
Dichlorodifluoromethane	ug/L	ND	5.0	08/07/09 09:06	
Ethylbenzene	ug/L	ND	5.0	08/07/09 09:06	
Isopropylbenzene (Cumene)	ug/L	ND	5.0	08/07/09 09:06	
Methyl acetate	ug/L	ND	50.0	08/07/09 09:06	
Methyl-tert-butyl ether	ug/L	ND	4.0	08/07/09 09:06	
Methylcyclohexane	ug/L	ND	50.0	08/07/09 09:06	
Methylene chloride	ug/L	ND	5.0	08/07/09 09:06	
Styrene	ug/L	ND	5.0	08/07/09 09:06	
Tetrachloroethene	ug/L	ND	5.0	08/07/09 09:06	

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QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004

Pace Project No.: 5029030

METHOD BLANK: 331288

Matrix: Water

Associated Lab Samples: 5029030001, 5029030002, 5029030003, 5029030004, 5029030005, 5029030006, 5029030007, 5029030008, 5029030009

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Toluene	ug/L	ND	5.0	08/07/09 09:06	
trans-1,2-Dichloroethene	ug/L	ND	5.0	08/07/09 09:06	
trans-1,3-Dichloropropene	ug/L	ND	5.0	08/07/09 09:06	
Trichloroethene	ug/L	ND	5.0	08/07/09 09:06	
Trichlorofluoromethane	ug/L	ND	5.0	08/07/09 09:06	
Vinyl chloride	ug/L	ND	2.0	08/07/09 09:06	
Xylene (Total)	ug/L	ND	10.0	08/07/09 09:06	
4-Bromofluorobenzene (S)	%	100	70-126	08/07/09 09:06	
Dibromofluoromethane (S)	%	99	80-123	08/07/09 09:06	
Toluene-d8 (S)	%	98	80-116	08/07/09 09:06	

LABORATORY CONTROL SAMPLE: 331289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1-Trichloroethane	ug/L	50	47.7	95	69-136	
1,1,2,2-Tetrachloroethane	ug/L	50	44.1	88	69-131	
1,1,2-Trichloroethane	ug/L	50	47.6	95	77-132	
1,1,2-Trichlorotrifluoroethane	ug/L	50	58.4	117	70-130	
1,1-Dichloroethane	ug/L	50	45.1	90	67-133	
1,1-Dichloroethene	ug/L	50	48.3	97	63-128	
1,2,4-Trichlorobenzene	ug/L	50	44.8	90	60-130	
1,2-Dibromo-3-chloropropane	ug/L	50	49.0	98	61-125	
1,2-Dibromoethane (EDB)	ug/L	50	45.0	90	75-126	
1,2-Dichlorobenzene	ug/L	50	48.6	97	76-124	
1,2-Dichloroethane	ug/L	50	48.0	96	69-139	
1,2-Dichloropropane	ug/L	50	47.4	95	76-129	
1,3-Dichlorobenzene	ug/L	50	47.8	96	76-125	
1,4-Dichlorobenzene	ug/L	50	48.4	97	75-122	
2-Butanone (MEK)	ug/L	250	357	143	47-189	
2-Hexanone	ug/L	250	334	133	57-167	
4-Methyl-2-pentanone (MIBK)	ug/L	250	244	98	61-135	
Acetone	ug/L	250	496	198	30-170 L3	
Benzene	ug/L	50	52.4	105	78-127	
Bromodichloromethane	ug/L	50	48.7	97	69-133	
Bromoform	ug/L	50	48.1	96	60-127	
Bromomethane	ug/L	50	32.9	66	30-170	
Carbon disulfide	ug/L	100	82.6	83	58-152	
Carbon tetrachloride	ug/L	50	54.3	109	62-143	
Chlorobenzene	ug/L	50	49.1	98	75-123	
Chloroethane	ug/L	50	47.3	95	56-153	
Chloroform	ug/L	50	51.8	104	74-131	
Chloromethane	ug/L	50	45.5	91	35-147	
cis-1,2-Dichloroethene	ug/L	50	48.1	96	74-128	
cis-1,3-Dichloropropene	ug/L	50	50.8	102	58-123	

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QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

LABORATORY CONTROL SAMPLE: 331289

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Cyclohexane	ug/L	50	ND	96	63-134	
Dibromochloromethane	ug/L	50	50.8	102	66-131	
Dichlorodifluoromethane	ug/L	50	52.3	105	30-170	
Ethylbenzene	ug/L	50	50.2	100	81-126	
Isopropylbenzene (Cumene)	ug/L	50	49.3	99	80-130	
Methyl acetate	ug/L	50	44.6J	89	30-170	
Methyl-tert-butyl ether	ug/L	100	106	106	66-147	
Methylcyclohexane	ug/L	50	46.4J	93	65-135	
Methylene chloride	ug/L	50	46.5	93	32-164	
Styrene	ug/L	50	49.7	99	74-128	
Tetrachloroethene	ug/L	50	48.1	96	60-119	
Toluene	ug/L	50	51.4	103	75-129	
trans-1,2-Dichloroethene	ug/L	50	51.5	103	71-126	
trans-1,3-Dichloropropene	ug/L	50	46.2	92	54-123	
Trichloroethene	ug/L	50	48.4	97	74-130	
Trichlorofluoromethane	ug/L	50	48.1	96	62-150	
Vinyl chloride	ug/L	50	45.6	91	55-141	
Xylene (Total)	ug/L	150	149	100	76-132	
4-Bromofluorobenzene (S)	%			102	70-126	
Dibromofluoromethane (S)	%			100	80-123	
Toluene-d8 (S)	%			102	80-116	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 331290 331291

Parameter	Units	5029030004		MSD		MS Result	% Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
		Result	Spike Conc.	Spike Conc.	MS Result							
1,1,1-Trichloroethane	ug/L	ND	50	50	43.3	52.4	87	105	64-143	19	20	
1,1,2,2-Tetrachloroethane	ug/L	ND	50	50	43.8	49.7	88	99	64-142	13	20	
1,1,2-Trichloroethane	ug/L	ND	50	50	44.2	51.1	88	102	71-143	14	20	
1,1,2-Trichlorotrifluoroethane	ug/L	ND	50	50	53.1	62.9	106	126	70-130	17	20	
1,1-Dichloroethane	ug/L	ND	50	50	41.9	47.2	84	94	68-139	12	20	
1,1-Dichloroethene	ug/L	ND	50	50	43.8	52.8	88	106	55-140	18	20	
1,2,4-Trichlorobenzene	ug/L	ND	50	50	35.0	39.2	70	78	28-140	11	20	
1,2-Dibromo-3-chloropropane	ug/L	ND	50	50	46.6	51.1	93	102	39-140	9	20	
1,2-Dibromoethane (EDB)	ug/L	ND	50	50	39.7	43.0	79	86	67-134	8	20	
1,2-Dichlorobenzene	ug/L	ND	50	50	42.4	49.6	85	99	48-137	16	20	
1,2-Dichloroethane	ug/L	ND	50	50	45.3	53.8	91	108	63-148	17	20	
1,2-Dichloropropane	ug/L	ND	50	50	42.7	51.1	85	102	70-136	18	20	
1,3-Dichlorobenzene	ug/L	ND	50	50	39.5	45.3	79	91	40-143	14	20	
1,4-Dichlorobenzene	ug/L	ND	50	50	39.7	45.4	79	91	38-142	14	20	
2-Butanone (MEK)	ug/L	ND	250	250	218	257	87	103	62-132	16	20	
2-Hexanone	ug/L	ND	250	250	228	268	91	107	61-141	16	20	
4-Methyl-2-pentanone (MIBK)	ug/L	ND	250	250	235	267	94	107	57-135	13	20	
Acetone	ug/L	ND	250	250	186	232	75	93	30-170	22	20	R1
Benzene	ug/L	ND	50	50	48.4	57.0	97	114	63-141	16	20	
Bromodichloromethane	ug/L	ND	50	50	41.7	52.2	83	104	63-135	22	20	R1
Bromoform	ug/L	ND	50	50	41.1	48.7	82	97	58-124	17	20	

Date: 08/11/2009 12:47 PM

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

Parameter	Units	5029030004		MS Spike		MSD Spike		MS Result		MSD Result		MS % Rec		MSD % Rec		% Rec		Max	
		Result	Conc.	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Result	Conc.	Limits	RPD	RPD
Bromomethane	ug/L	ND	50	50	18.5	29.7	37	59	30-170	46	20	R1							
Carbon disulfide	ug/L	ND	100	100	75.1	88.2	75	88	46-162	16	20								
Carbon tetrachloride	ug/L	ND	50	50	44.8	55.3	90	111	54-145	21	20	R1							
Chlorobenzene	ug/L	ND	50	50	41.5	47.8	83	96	56-133	14	20								
Chloroethane	ug/L	ND	50	50	44.1	50.7	88	101	54-157	14	20								
Chloroform	ug/L	ND	50	50	47.2	55.8	94	112	67-134	17	20								
Chloromethane	ug/L	ND	50	50	41.8	54.0	84	108	36-137	26	20	R1							
cis-1,2-Dichloroethene	ug/L	ND	50	50	43.4	51.2	87	102	65-132	16	20								
cis-1,3-Dichloropropene	ug/L	ND	50	50	45.2	50.8	90	102	46-121	12	20								
Cyclohexane	ug/L	ND	50	50	ND	52.4J	89	105	39-167										
Dibromochloromethane	ug/L	ND	50	50	44.3	50.4	89	101	64-124	13	20								
Dichlorodifluoromethane	ug/L	ND	50	50	49.6	59.3	99	119	30-163	18	20								
Ethylbenzene	ug/L	ND	50	50	42.7	46.0	85	92	44-151	7	20								
Isopropylbenzene (Cumene)	ug/L	ND	50	50	40.4	45.8	81	92	40-148	12	20								
Methyl acetate	ug/L	ND	50	50	40.3J	46.8J	81	94	40-182										
Methyl-tert-butyl ether	ug/L	ND	100	100	95.2	105	95	105	52-156	10	20								
Methylcyclohexane	ug/L	ND	50	50	41.3J	50.0	83	100	44-158										
Methylene chloride	ug/L	ND	50	50	40.6	48.6	81	97	46-154	18	20								
Styrene	ug/L	ND	50	50	40.2	42.1	80	84	38-141	5	20								
Tetrachloroethene	ug/L	ND	50	50	40.6	45.9	81	92	25-146	12	20								
Toluene	ug/L	ND	50	50	43.6	48.8	87	98	59-142	11	20								
trans-1,2-Dichloroethene	ug/L	ND	50	50	47.9	54.1	96	108	60-137	12	20								
trans-1,3-Dichloropropene	ug/L	ND	50	50	38.6	45.8	77	92	43-117	17	20								
Trichloroethene	ug/L	ND	50	50	41.5	50.7	83	101	61-137	20	20								
Trichlorofluoromethane	ug/L	ND	50	50	44.3	54.6	89	109	53-162	21	20	R1							
Vinyl chloride	ug/L	ND	50	50	41.6	53.1	83	106	51-144	24	20	R1							
Xylene (Total)	ug/L	ND	150	150	124	139	82	93	44-152	12	20								
4-Bromofluorobenzene (S)	%						101	98	70-126										
Dibromofluoromethane (S)	%						101	104	80-123										
Toluene-d8 (S)	%						102	97	80-116										

Date: 08/11/2009 12:47 PM

REPORT OF LABORATORY ANALYSIS

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AMMH002442

QUALIFIERS

Project: AT Stage III /IN473.0020.00004
Pace Project No.: 5029030

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

Pace Analytical is NELAP accredited. Contact your Pace PM for the current list of accredited analytes.

U - Indicates the compound was analyzed for, but not detected.

ANALYTE QUALIFIERS

L3 Analyte recovery in the laboratory control sample (LCS) exceeded QC limits. Analyte presence below reporting limits in associated samples. Results unaffected by high bias.

R1 RPD value was outside control limits.



CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:																																																																																																																																																																																																																																																																																							
Company: ARCADES Address: E. OHIO ST STE. 800		Report To: Sarah Fisher Copy To: MATTHEW GANTHER - 670-4		Attention: Sarah Fisher Company Name: ARCADES																																																																																																																																																																																																																																																																																							
Purchase Order No: 201473-2020-0004 Project Name: AT Stage II Project Number: 201473-2020-0004 Requested Due Date/TAT: 48 hr		Address: 'SAME' Pace Quote Reference: 201473-2020-0004 Pace Project Manager: Ryan Sykes Pace Profile #: 201473-2020-0004		REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER																																																																																																																																																																																																																																																																																							
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<table border="1"> <thead> <tr> <th colspan="12">Requested Analysis Filtered (Y/N)</th> </tr> <tr> <th rowspan="2">Section D Required Client Information</th> <th rowspan="2">Matrix Codes MATRIX / CODE</th> <th colspan="3">COLLECTED</th> <th colspan="3">Preservatives</th> <th colspan="3">ANALYSIS TEST</th> <th rowspan="2">Pace Project No./ Lab ID.</th> </tr> <tr> <th>COMPOSITE START</th> <th>COMPOSITE END/GRAB</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> <th>TIME</th> <th>DATE</th> </tr> </thead> <tbody> <tr> <td rowspan="12">SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE</td> <td rowspan="12">ITEM #</td> <td rowspan="12">MATERIAL CODE (see valid codes to left)</td> <td colspan="10"># OF CONTAINERS</td> <td rowspan="12">Lab Services Test</td> </tr> <tr> <td colspan="10">SAMPLE TEMP AT COLLECTION</td> </tr> <tr> <td colspan="10"># OF CONTAINERS</td> </tr> <tr> <td colspan="10">Preservatives</td> </tr> <tr> <td colspan="10">Other</td> </tr> <tr> <td colspan="10">Methanol</td> </tr> <tr> <td colspan="10">Na2SO3</td> </tr> <tr> <td colspan="10">NaOH</td> </tr> <tr> <td colspan="10">HCl</td> </tr> <tr> <td colspan="10">HNO3</td> </tr> <tr> <td colspan="10">H2SO4</td> </tr> <tr> <td colspan="10">Ungreased</td> </tr> <tr> <td colspan="10">DGC</td> </tr> <tr> <td colspan="10">VOC</td> </tr> <tr> <td colspan="10">Pace Services</td> </tr> <tr> <td colspan="10">-001</td> </tr> <tr> <td colspan="10">-002</td> </tr> <tr> <td colspan="10">-003</td> </tr> <tr> <td colspan="10">-004</td> </tr> <tr> <td colspan="10">-005</td> </tr> <tr> <td colspan="10">-006</td> </tr> <tr> <td colspan="10">-007</td> </tr> <tr> <td colspan="10">-008</td> </tr> <tr> <td colspan="10">-009</td> </tr> </tbody> </table>						Requested Analysis Filtered (Y/N)												Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED			Preservatives			ANALYSIS TEST			Pace Project No./ Lab ID.	COMPOSITE START	COMPOSITE END/GRAB	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	SAMPLE ID (A-Z, 0-9, -,) Sample IDs MUST BE UNIQUE	ITEM #	MATERIAL CODE (see valid codes to left)	# OF CONTAINERS										Lab Services Test	SAMPLE TEMP AT COLLECTION										# OF CONTAINERS										Preservatives										Other										Methanol										Na2SO3										NaOH										HCl										HNO3										H2SO4										Ungreased										DGC										VOC										Pace Services										-001										-002										-003										-004										-005										-006										-007										-008										-009									
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ADDITIONAL COMMENTS		BELONGED/SHIPPED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS																																																																																																																																																																																																																																																																													
* Level II 24/7C		John Sykes / Sykes		8/6/09		501		Mukring Pace		8/6/09		501		2.62 Y N Y																																																																																																																																																																																																																																																																													
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ORIGINAL		PRINT NAME OF SAMPLER:		SAMPLER NAME AND SIGNATURE		SIGNATURE OF SAMPLER:		DATE Signed (MM/DD/YY):		Temp in °C		Received on (MM/DD/YY):		Samples intact (Y/N)																																																																																																																																																																																																																																																																													

Sample Condition Upon Receipt

Pace Analytical

Client Name: ArcadesProject # 5b2903D

Courier: Fed Ex UPS USPS Client Commercial Pace Other
 Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Optional	
Proj. Due Date:	
Proj. Name:	

Packing Material: Bubble Wrap Bubble Bags None Other foam

Thermometer Used 123456 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 2.6°C Biological Tissue Is Frozen: Yes No Comments: Date and Initials of person examining contents: 8/6/09 mg

Temp should be above freezing to 6°C	Comments:	
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7. <u>48 hours</u>
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix: <u>water</u>		
All containers needing preservation have been checked.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	15.
Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

_____Project Manager Review: Kenneth HuntDate: 8/6/09

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

Sample Container Count

CLIENT: *Lucas*

COC PAGE / of /
COC ID# / 302985

Project # 5029030

Pace Analytical
www.paceanalytical.com

Sample Line	Item	DG9H	AG1U	WGFU	R 4/6	BP2N	BP2U	BP2S	BP3N	BP3U	BP3S	AG3S	AG1H	Comments
	1	3												
	2	3												
	3	3												
	4	9												
	5	3												
	6	2												
	7	3												
	8	3												
	9	3												
	10													
	11													
	12													

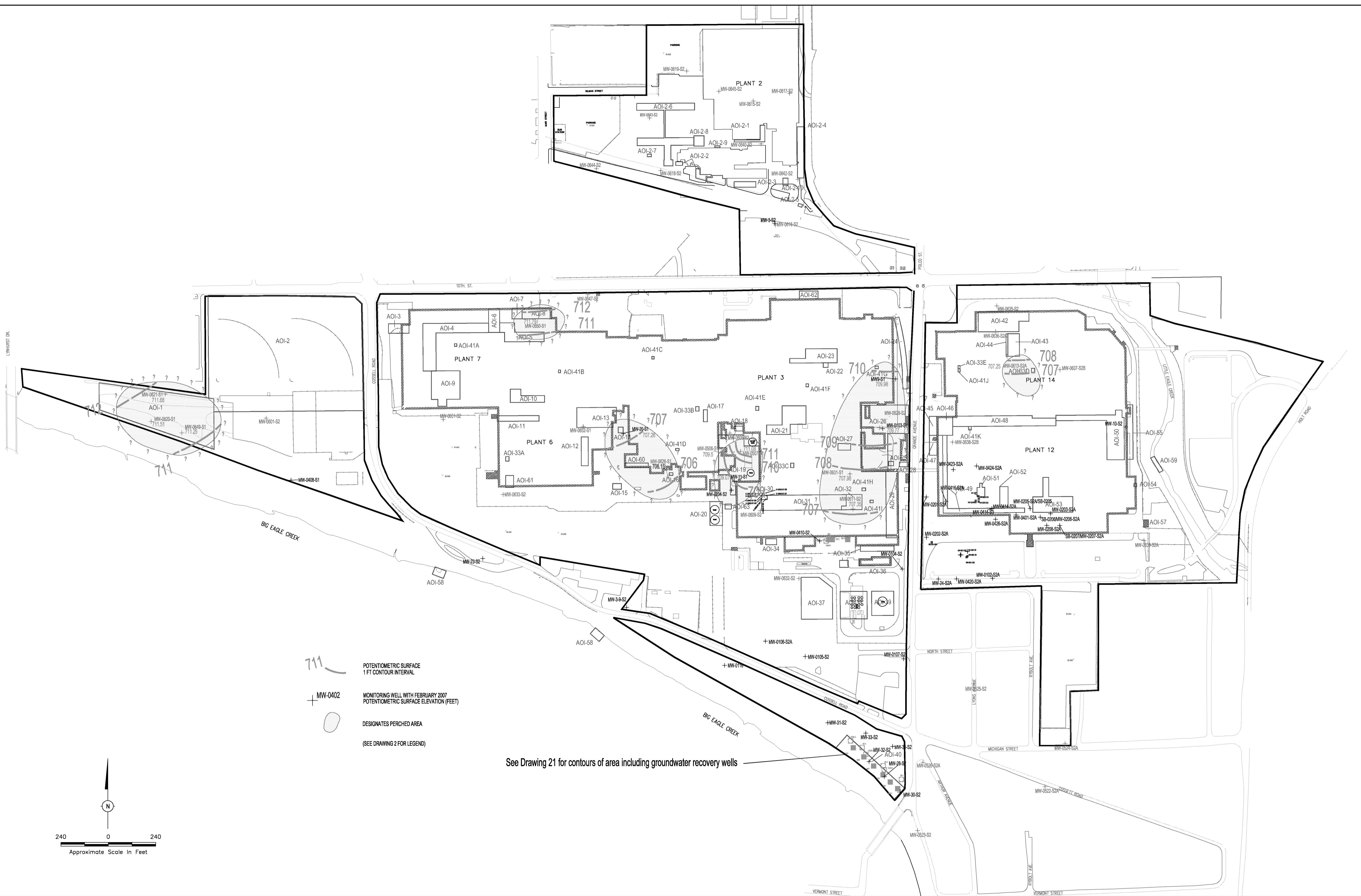
Container Codes

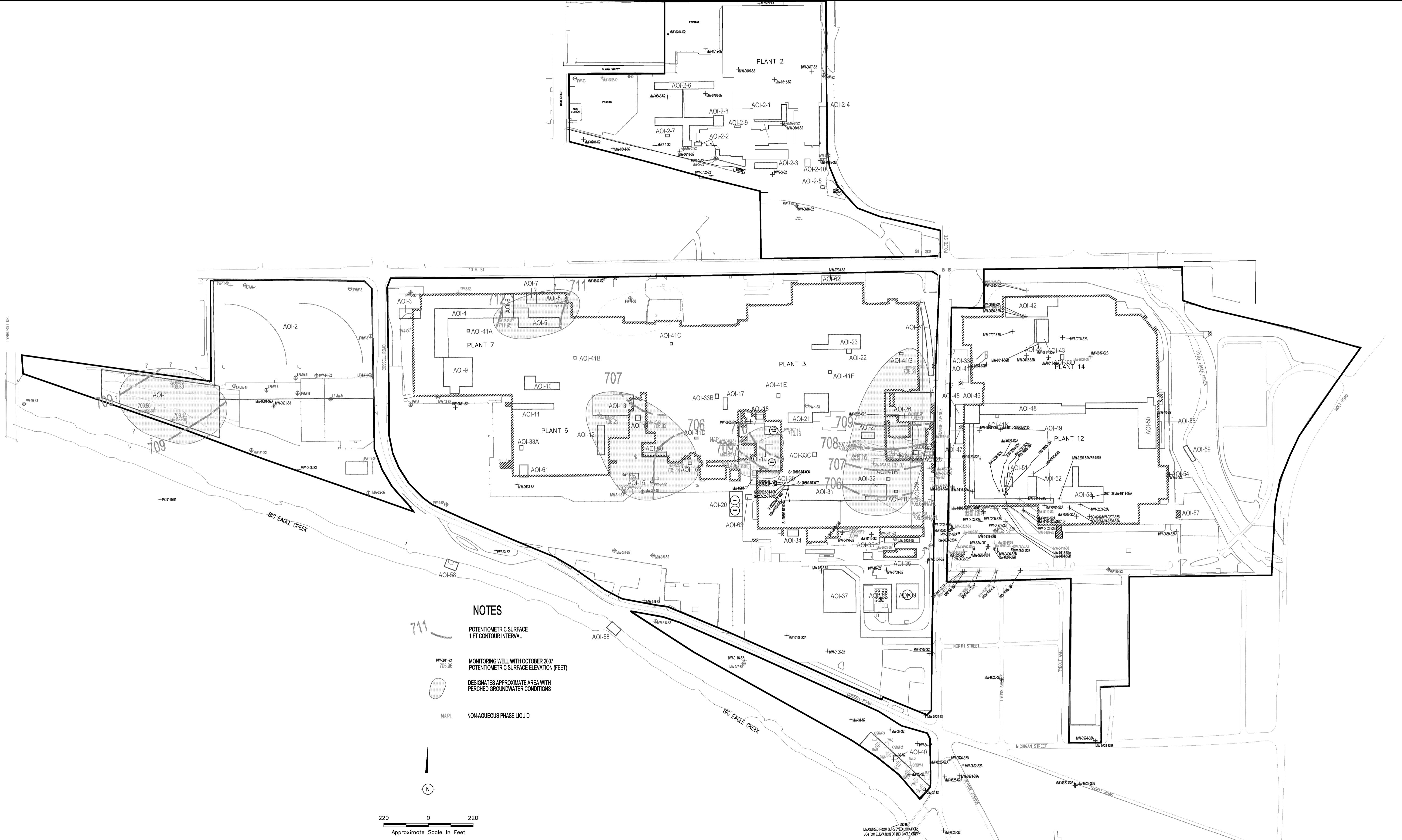
DG9H	40mL HCl amber vial	AF	Air Filter	BP1N	1 liter HNO3 plastic	DG9P	40mL TSP amber vial
AG1U	1 liter unpreserved amber glass	AG1H	1 liter HCl amber glass	BP1S	1 liter H ₂ SO ₄ plastic	DG9S	40mL H ₂ SO ₄ amber vial
WGFU	4oz clear soil jar	AG1S	1 liter H ₂ SO ₄ amber glass	BP1U	1 liter unpreserved plastic	DG9T	40mL Na Thio amber vial
R	Terra core kit	AG1T	1 liter Na Thiosulfate amber gl	BP1Z	1 liter NaOH, Zn, Ac	DG9U	40mL unpreserved amber vial
BP2N	500mL HNO3 plastic	AG2N	500mL HNO ₃ amber glass	BP2A	500mL NaOH, Asc Acid plastic	JGFU	1 Wipe/Swab
BP2U	500mL unpreserved plastic	AG2S	500mL H ₂ SO ₄ amber glass	BP2O	500mL NaOH plastic		4oz unpreserved amber wide
BP2S	500mL H ₂ SO ₄ plastic	AG2U	500mL unpreserved amber gla	BP2Z	500mL NaOH, Zn, Ac	U	Summa Can
BP3N	250mL HNO3 plastic	AG3U	250mL NaOH, Asc Acid plastic	BP3A	250mL NaOH, Asc Acid plastic	VG9H	40mL HCl clear vial
BP3U	250mL unpreserved plastic	BG1H	1 liter HCl, clear glass	BP3C	250mL NaOH plastic	VG9T	40mL Na Thio, clear vial
BP3S	250mL H ₂ SO ₄ plastic	BG1S	1 liter H ₂ SO ₄ clear glass	BP3Z	250mL NaOH, Zn Ac plastic	VG9U	40mL unpreserved clear vial
AG3S	250mL H ₂ SO ₄ glass amber	BG1T	1 liter Na Thiosulfate clear gla	C	Air Cassettes	VSG	Headspace septa vial & HCl
AG1S	1 liter H ₂ SO ₄ amber glass	BG1U	1 liter unpreserved glass	DG9B	40mL Na Bisulfate amber vial	WGFX	4oz wide jar hexane wipe
BP1U	1 liter unpreserved plastic	BP1A	1 liter NaOH, Asc Acid plastic	DG9M	40mL MeOH clear vial	ZPLC	Ziploc Bag

ARCADIS

Attachment C

Potentiometric Surface Maps

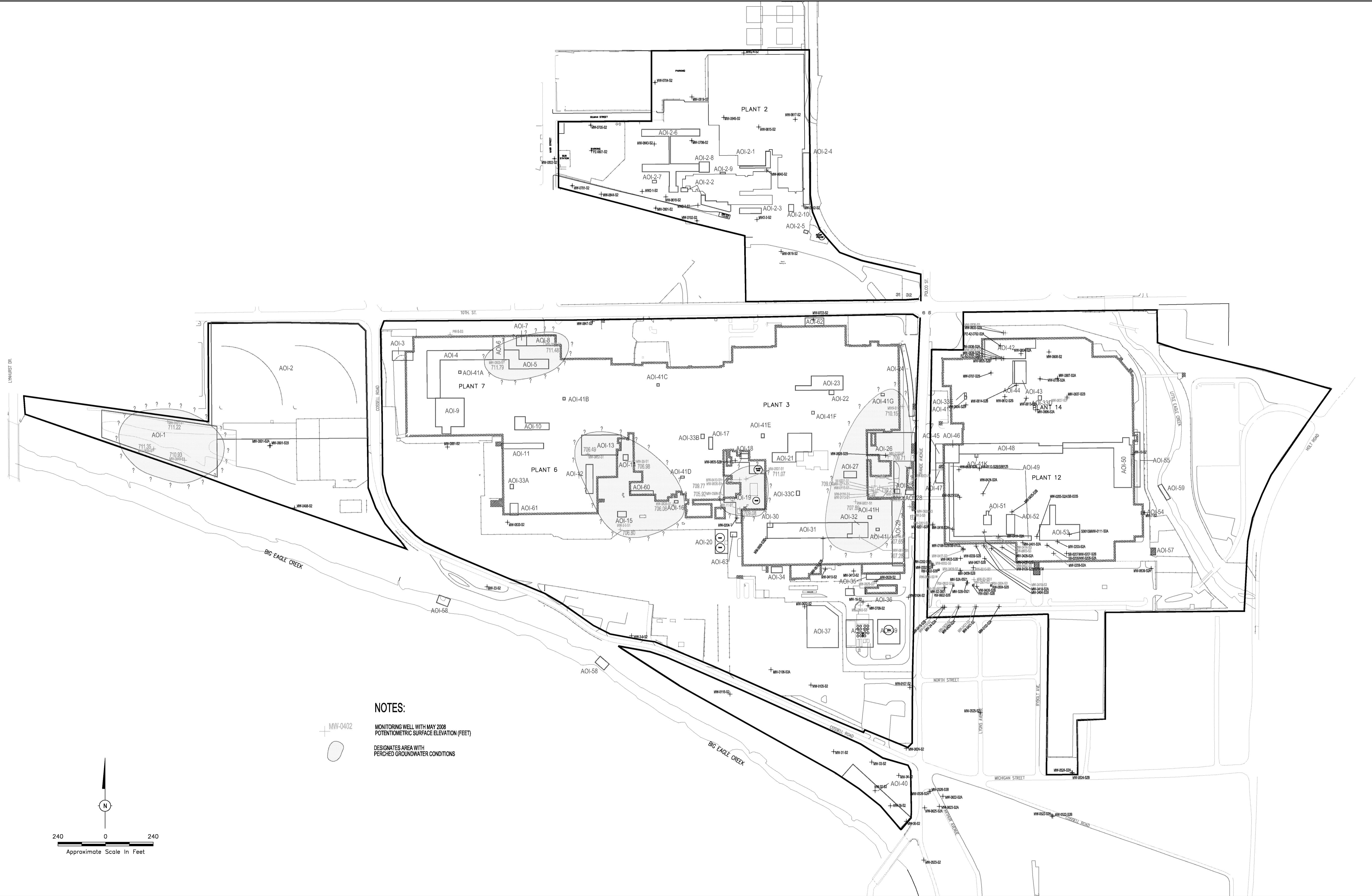




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Tel: 317.231.6500 Fax: 317.231.6514
www.arcadis-us.com

ALLISON TRANSMISSION
RCRA FACILITY INVESTIGATION REPORT
LOCALIZED PERCHED GROUNDWATER ELEVATIONS
OCTOBER 2007
SPEEDWAY, INDIANA

Project Number
IN000473.0017
Date
2/22/2008
Figure
3.4.17



Area Manager S. GLENN
Project Director J. COSGROVE
Task Manager S. FISHER
Technical Review HGL

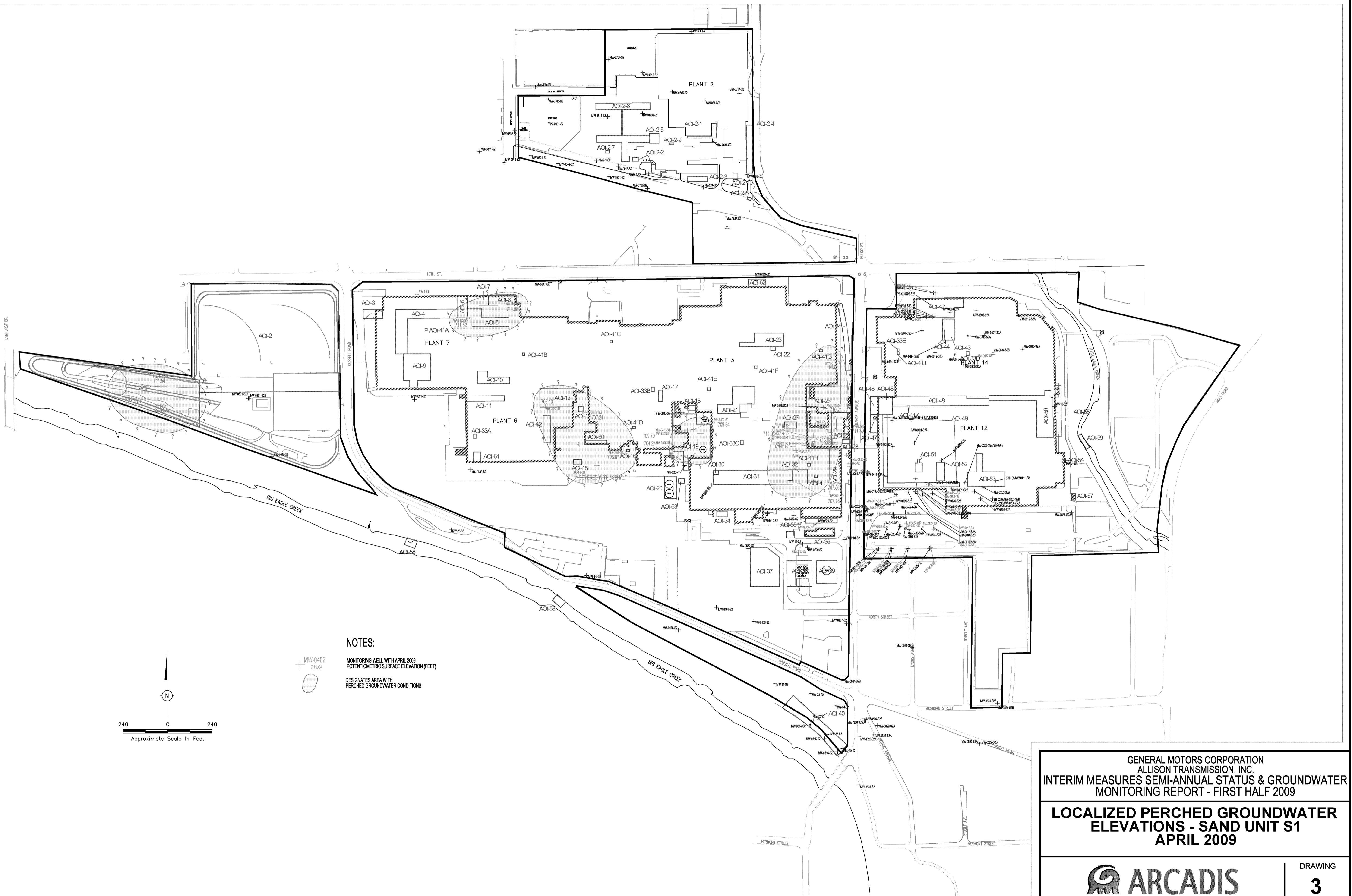


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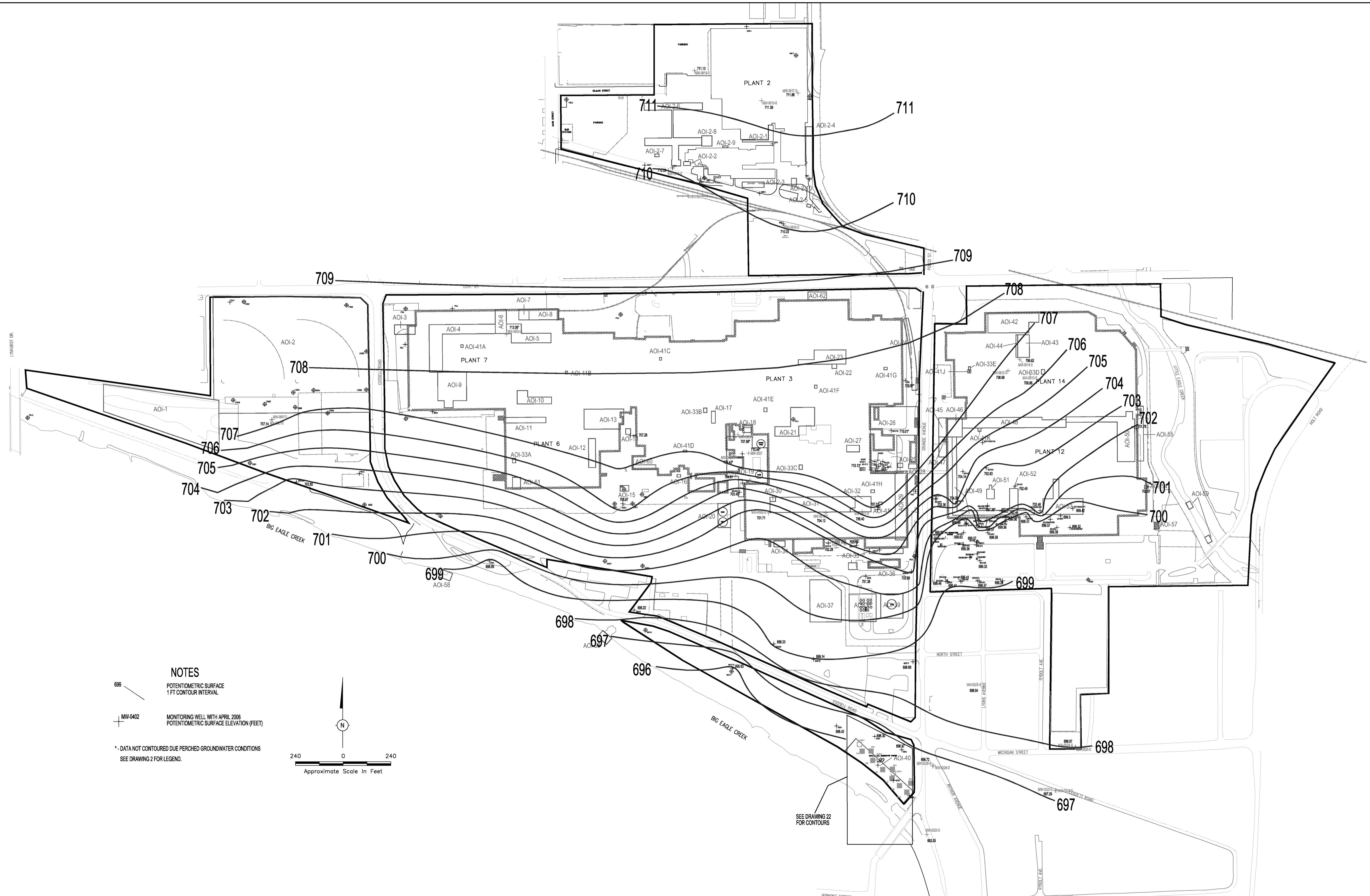
ALLISON TRANSMISSION
ADDITIONAL SAMPLING DATA REPORT
LOCALIZED PERCHED GROUNDWATER ELEVATIONS
MAY 2008

SPEEDWAY, INDIANA

Project Number IN000473.0017
Date 9/11/08
Drawing 8



1155 PROJECT ALISTRNN0473(019-0MM) Remediation Status Report(First Half 2009)\Figures\plot MAPS\Copy of Perched area 5-2008_090623.dwg LAYOUT: 3 SAVED: 7/13/2009 2:24 PM ACADVER: 17.05 (LMS TECH) PAGESETUP: --- PLOTSTYLETABLE: --- PLOTTED: 10/11/2009 12:39 PM BY: FISHER, SARAH



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